

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P893640

Luminaire Tested: 4MB-5SL-LVR-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-5SL-LVR-UNV-L950
Description: 5000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

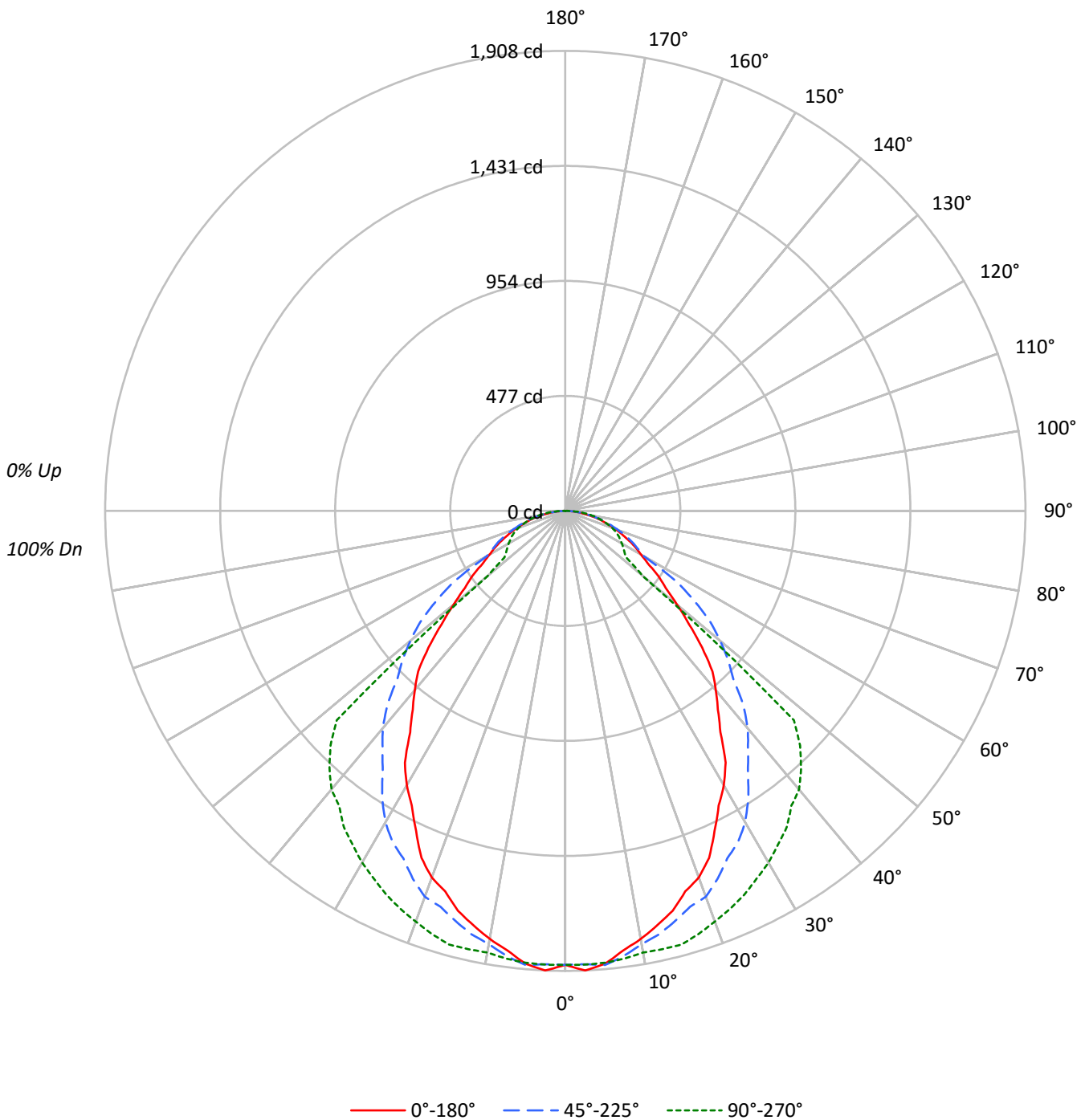
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4018.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.33 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 9.55
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893640
CATALOG NUMBER: 4MB-5SL-LVR-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P893640

CATALOG NUMBER: 4MB-5SL-LVR-UNV-L950

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13396	13396	13396
5°	13468	13502	13434
10°	13026	13179	13437
15°	12650	12969	13713
20°	12254	12894	13724
25°	11497	12478	13785
30°	10800	12254	13841
35°	9739	11459	13907
40°	9020	10932	14004
45°	8070	9908	13846
50°	6696	9281	4651
55°	5833	8147	3721
60°	5158	5309	3859
65°	4906	5165	4096
70°	4602	4880	4321
75°	4283	4599	4442
80°	3901	4335	4651
85°	3453	3690	5021

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13846 cd/sqm



TEST NUMBER: P893640
 CATALOG NUMBER: 4MB-5SL-LVR-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	4.4
10°-20°	502.4	12.5
20°-30°	739.0	18.4
30°-40°	845.2	21.0
40°-50°	800.3	19.9
50°-60°	440.9	11.0
60°-70°	283.1	7.0
70°-80°	174.7	4.3
80°-90°	53.8	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1420.0	35.3
0°-40°	2265.2	56.4
0°-60°	3506.4	87.3
0°-90°	4018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1886	1901	1890	1890	1881	177
15°	1717	1739	1761	1853	1862	482
25°	1464	1530	1590	1693	1756	674
35°	1121	1217	1319	1511	1601	709
45°	802	878	985	1264	1376	613
55°	470	493	657	338	300	420
65°	291	301	307	273	243	288
75°	156	159	167	176	162	166
85°	42	42	45	52	62	47
90°	0	0	0	0	0	



TEST NUMBER: P893640

CATALOG NUMBER: 4MB-5SL-LVR-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1882.8	1882.8	1882.8	1882.8	1882.8
2.5°	1907.8	1912.7	1881.9	1880.9	1883.8
5°	1885.7	1901.1	1890.5	1890.5	1880.9
7.5°	1838.6	1864.6	1861.7	1883.8	1873.2
10°	1803.0	1824.2	1824.2	1881.9	1859.8
12.5°	1760.7	1784.8	1798.2	1858.8	1861.7
15°	1717.4	1738.6	1760.7	1853.0	1861.7
17.5°	1654.9	1693.4	1721.3	1811.7	1839.6
20°	1618.4	1641.5	1703.0	1776.1	1812.6
22.5°	1557.8	1591.5	1651.1	1732.8	1786.7
25°	1464.5	1529.9	1589.5	1693.4	1755.9
27.5°	1378.0	1427.0	1550.1	1659.7	1719.4
30°	1314.5	1353.0	1491.5	1610.7	1684.7
32.5°	1237.6	1300.1	1412.6	1562.6	1641.5
35°	1121.2	1217.4	1319.3	1510.7	1601.1
37.5°	1039.5	1105.9	1244.3	1456.8	1540.5
40°	971.2	1031.8	1177.0	1389.5	1507.8
42.5°	903.0	952.0	1092.4	1339.5	1447.2
45°	802.0	878.0	984.7	1263.6	1376.1
47.5°	696.2	777.0	914.5	1199.1	1285.7
50°	604.9	669.3	838.5	1071.2	420.2
52.5°	525.0	584.7	757.8	387.5	317.3
55°	470.2	493.3	656.8	338.5	300.0
57.5°	404.8	442.3	551.0	322.1	284.6
60°	362.5	378.9	373.1	305.8	271.2
62.5°	328.9	340.4	338.5	289.4	255.8
65°	291.4	301.0	306.8	273.1	243.3
67.5°	253.9	262.5	271.2	252.9	226.0
70°	221.2	226.9	234.6	228.9	207.7
72.5°	187.5	194.2	199.1	203.9	183.7
75°	155.8	158.7	167.3	176.0	161.6
77.5°	126.9	129.8	135.6	145.2	137.5
80°	95.2	98.1	105.8	113.5	113.5
82.5°	67.3	69.2	74.0	84.6	89.4
85°	42.3	42.3	45.2	51.9	61.5
87.5°	16.3	16.3	19.2	23.1	30.8
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893640
 CATALOG NUMBER: 4MB-5SL-LVR-UNV-L950

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.97	18.45	17.33	18.76	19.08	14.77	16.25	15.13	16.56	16.88
	3H	18.49	19.82	18.87	20.15	20.51	17.10	18.43	17.48	18.75	19.12
	4H	19.08	20.33	19.48	20.68	21.06	18.05	19.29	18.45	19.64	20.02
	6H	19.54	20.69	19.95	21.06	21.45	18.83	19.98	19.25	20.35	20.74
	8H	19.69	20.78	20.11	21.17	21.57	19.15	20.24	19.57	20.63	21.03
	12H	19.78	20.83	20.21	21.21	21.64	19.39	20.44	19.82	20.82	21.25
4H	2H	17.52	18.76	17.92	19.11	19.49	15.87	17.12	16.27	17.46	17.84
	3H	19.29	20.32	19.70	20.72	21.12	18.32	19.35	18.73	19.75	20.15
	4H	20.01	20.93	20.44	21.35	21.79	19.38	20.31	19.82	20.73	21.17
	6H	20.59	21.40	21.05	21.84	22.30	20.27	21.08	20.73	21.52	21.98
	8H	20.78	21.54	21.25	21.98	22.45	20.62	21.38	21.09	21.82	22.29
	12H	20.92	21.59	21.40	22.07	22.54	20.91	21.59	21.40	22.06	22.54
8H	4H	20.32	21.07	20.78	21.51	21.98	19.77	20.52	20.24	20.97	21.44
	6H	21.03	21.65	21.52	22.14	22.62	20.81	21.43	21.30	21.92	22.40
	8H	21.29	21.85	21.80	22.36	22.85	21.25	21.81	21.77	22.32	22.81
	12H	21.50	22.00	22.01	22.49	23.05	21.64	22.13	22.15	22.63	23.19
12H	4H	20.35	21.02	20.83	21.50	21.98	19.81	20.48	20.29	20.96	21.43
	6H	21.09	21.65	21.61	22.16	22.65	20.87	21.43	21.39	21.94	22.43
	8H	21.41	21.91	21.92	22.40	22.97	21.38	21.88	21.89	22.37	22.94